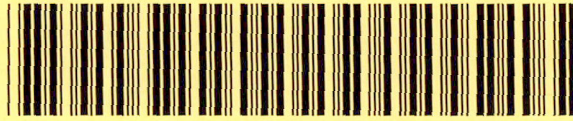


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Site Name ATKINSON ST CONTAMINATION

DocumentType Correspondence (C)

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Division WASTE MANAGEMENT

Section SUPERFUND

Program IHS (IHS)

DocCat FACILITY

**Note to file and summary for drilling preparations
Atkinson/Campbell Street Site
1/7/09 DLB**

The site is located in Richmond County near, but not in the Hamlet City Limits. It generally falls near the intersection of Atkinson Street and Campbell Streets. Portions of the CSX main rail way switching yard is located due north of the neighborhood. Lat/long is generally N34 55' 07.97" and W79 40' 23.20". Hamlet is located near the "fall line" boundary of the Piedmont and Coastal Plain Geographic Provinces. Coastal Plain unconsolidated sediments are approximately 300 feet over green schist crystalline basement material (based on my own local drilling experience – DLB). The area slopes from north to south, therefore the rail yard is considered upgradient to the site. Several small lakes are located to the south of the site and one of the lakes is a surface water source for the City of Hamlet.

The area is residential with mostly unpaved roads. All residents in the area obtain potable water from private drinking water wells that according to current information range from approximately 100 to 200 feet in depth with depth to water being approximately 22 feet according to health department records. Public water is not available.

An assessment and survey of private drinking water wells in the area is ongoing between the Aquifer Protection Section, the Richmond County Health Department and the IHSB. Initial sampling was performed due to documented contamination resulting from agricultural spraying of fungicide and nematocide chemicals related to peach tree orchards formerly occupying properties to the north and west of Atkinson and Campbell Streets. An example of a detected chemical related to agricultural spraying includes 1,4 dichloropropane. Since the orchards are now gone and the land is relatively cleared with good access, much of the former orchard property is being converted to residential housing. Since municipal improvements have not reached many of the areas, water and sewer is provided by private well and septic systems. As contamination became documented, the APS and Richmond County Health department elected to provide chemical testing of private wells at the request of any resident in the area. To date, approximately 400 private supply wells have been tested. Those residences where chemicals were found to exceed the MCLs have been provided bottled water by a separate contract setup by the APS Section of Fayetteville Regional Office using Bernard Allen monies. No orchards or evidence of agricultural activity is noted at the Atkinson Street Site.

Two locations were also identified as containing industrial solvents. The 2 locations generally represent the extreme eastern and western boundaries of the CSX Railway Switch Yard. One location known as the Chappel Residence is located on US Highway 177 North where TCE was detected above the MCL. This location is currently being managed by Sean Boyles and the residents are also being provided bottled water. A future county water line extension may eliminate the Chappel Site as a risk. The second location is at Atkinson Street (the site) where resident Gordon Haught's private supply

well was initially sampled by the Richmond County Health Department in October 2008 and demonstrated to contain 1,1 dichloroethene (1,1 DCE) with the concentration of 23.5 ug/L in addition to degradation solvents not above the MCL including 1,1 DCA and 1,1,1 TCA. The contamination was confirmed by subsequent sampling the IHSB in November 2008 with concentration of 1,1 DCE of 11.0 ug/L at the Haught residence. Mr. Haught is currently being provided bottled water using the APS bottled water contractor.

The APS, Richmond County Health Dept. and IHSB have expanded the sample collection in the neighborhood of Atkinson Street to include Ashley Street, Orton Lane, Lances Run, Justice Road and Campbell Street for a total of 16 supply well samples at the site. MCLs have not been exceeded in the additional wells sampled however, concentrations of 1,1 DCE were detected particularly on Ashley Street which is nearest and considered down gradient of the Haught residence. A private supply well and irrigation well located at the Butler residence on Ashley Street was sampled by the IHSB. 1,1 DCE was detected in the supply well with the concentration of 4.8 ug/L and the irrigation well of 3.7 ug/L. The Butlers supply water to their rental property also located on Ashley Street from private well. HREs have been submitted for this location.

3 offsite industrial facilities have been identified in addition to CSX. They include Seaboard Tank Cleaning Services, REXAM Plastic Products and Trinity Manufacturing Inc. Each facility is located to the north (upgradient) of the site either on HWY 177 or located north of HWY 177 in an industrial park. Public water is supplied to each location and to local residents however a few private wells for irrigation was identified and sampled by the health department. Industrial chemicals were reported "not detected" or below the 2L Standards by the Health Department for the wells sampled. IHSB does not currently have all documentation in hand and is relying on summary tables prepared by the Health Department.

Letters have been prepared by the IHSB, mailed December 2008 and received by each of the 4 facilities that ask for information related to the use of chemicals and industrial processes. Currently (1/9/09) Seaboard has responded with information and CSX has requested more time. REXAM has responded with a simple 2-page letter and Trinity has not responded.

Seaboard Tank Cleaning Services provides cleaning services for railcars and general mechanical repairs, painting and lining. Examples of cleaning activities include railcars that contained plastic pellets, limestone, cement, sand, and soap.

The CSX Railyard is a large transfer and switching facility where railcars are changed from one string of locomotives to another. The facility has operated for many years with many different functions. An example is an ice manufacturing facility that once was used to refrigerate railcars located due north of the site near the current Seaboard Facility. The rail yard is several miles long running generally east to west. The rail yard includes several maintenance shops. Spills have been reported and documented including ethylene glycol spill and a diesel fuel release currently under remediation by UST Section

oversight. Recent sampling of monitoring wells related to the rail yard's storm water control facility were reviewed by the IHSB and found not to contain chlorinated solvents.

REXAM manufactures plastic containers. Plastic is brought from an offsite source as pellets and injected into molds to make containers. Accordingly, normal chemical compounds used to make plastic are not present. According to REXAM the process uses some resins, MEK and alcohol.

Trinity Manufacturing Inc. manufactures the soil fumigant – chloropicrin, sodium hypochlorite and a proprietary oxidant used in the textile industry.

DRILLING AND ASSESSMENT

The success of drilling and assessment pertaining to the source of the 1,1 DCE in the area of Atkinson Street is largely dependant on gaining access to the CSX property. The CSX property adjacent to Campbell and Atkinson Street is fairly heavily wooded becoming clearer towards the north and the tracks. Some clearing may be required for a suitable drill site

Link to County GIS with aerial: <http://www.richmondnc.org/rc%5Fims/>

It would also be beneficial to check the water quality of the property adjacent to the Haught residence considered to lateral/upgradient. The property is subdivided into lots but not developed. According to tax records the properties are owned by Bobby Simmons Tate of Irvington New Jersey.

He now lives at Campbell Street?

The G. Haught supply well is screened from 79'-89' with SWL being 22', so the total depth of any monitoring well should not initially exceed 90-100 feet.

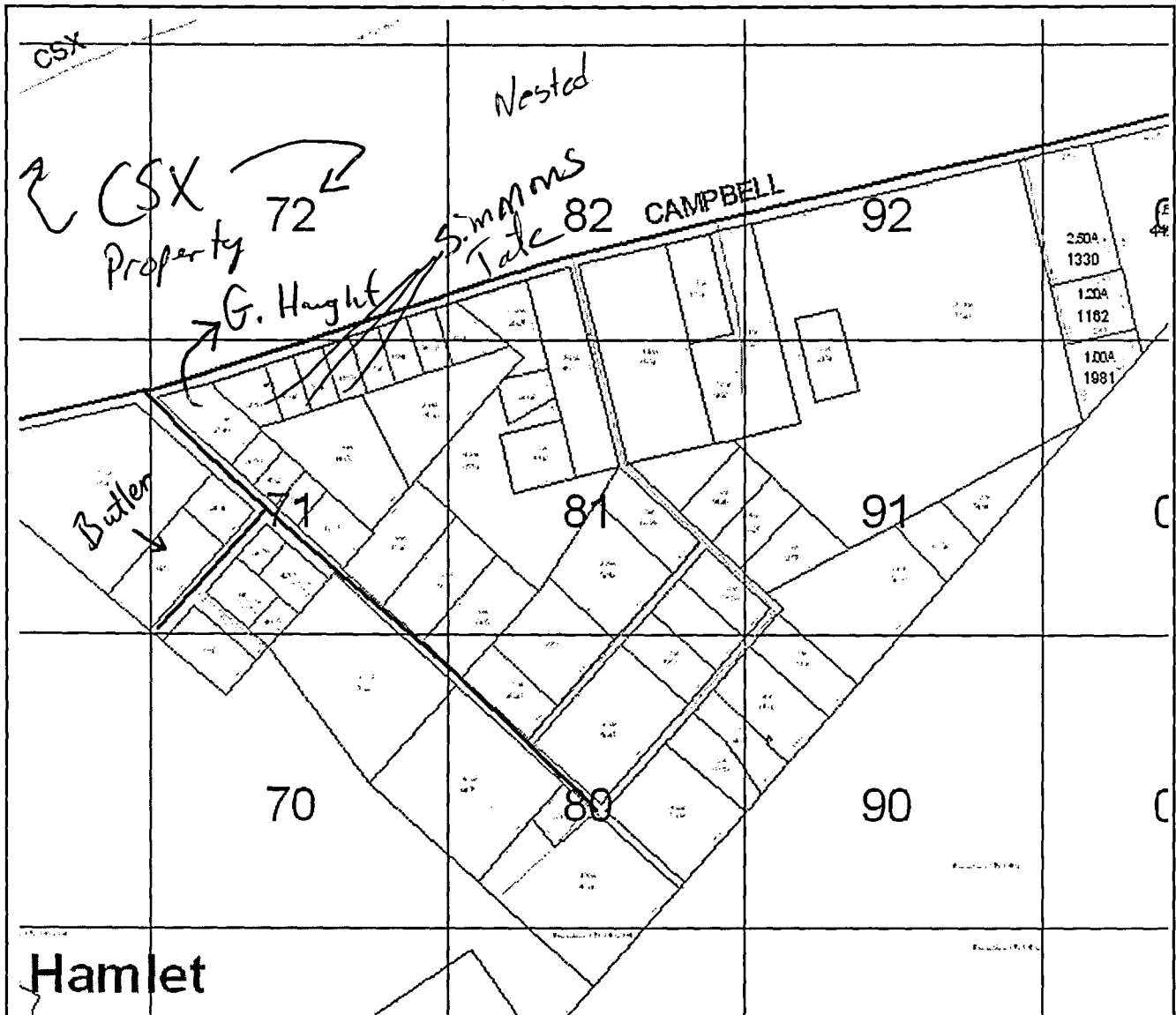
Drilling and sampling should be conducted in a phased approach with the first phase being construction of 3 monitoring wells on the CSX property across Campbell Street and adjacent to the Haught Residence and 2 monitoring wells on the Simmons vacant lots. Collection of soil samples for laboratory analysis is not recommended unless normal screening for VOCs in split spoon samples indicated the presence of volatile compounds. Split spoon type sampling is recommended for basic sub-surface characterization however, the ability to collect samples is greatly reduced once the boring is advanced past the water table where simple mud logging may be the best option.



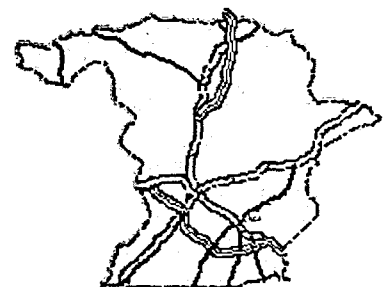
RICHMOND COUNTY

NORTH CAROLINA

Printed On:
12/17/2008



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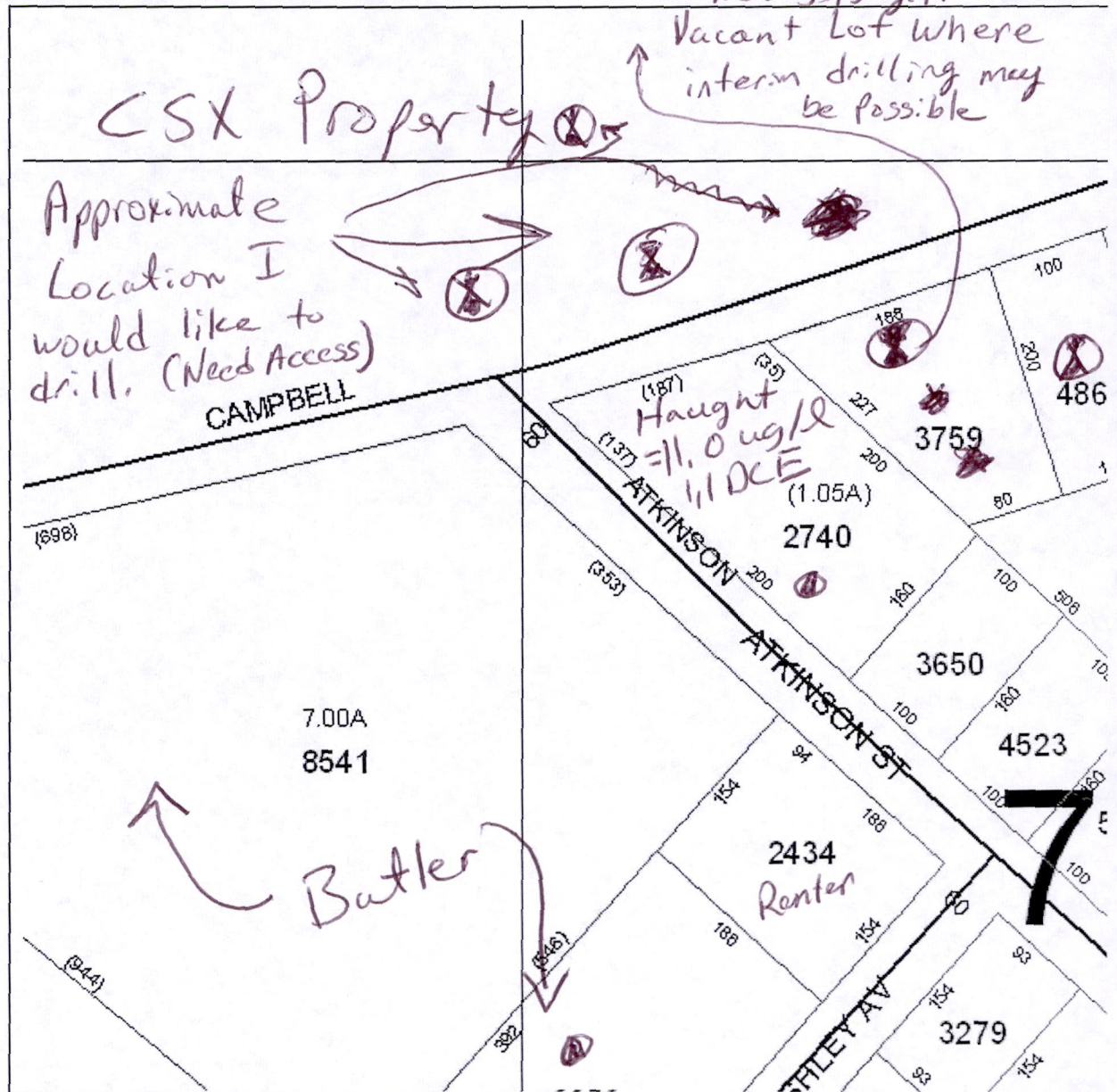




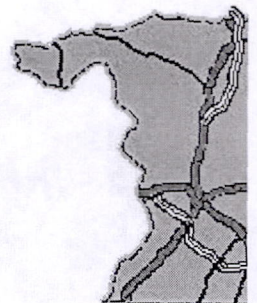
RICHMOND COUNTY

NORTH CAROLINA

Owned by Bobby Simmons
New Jersey Address



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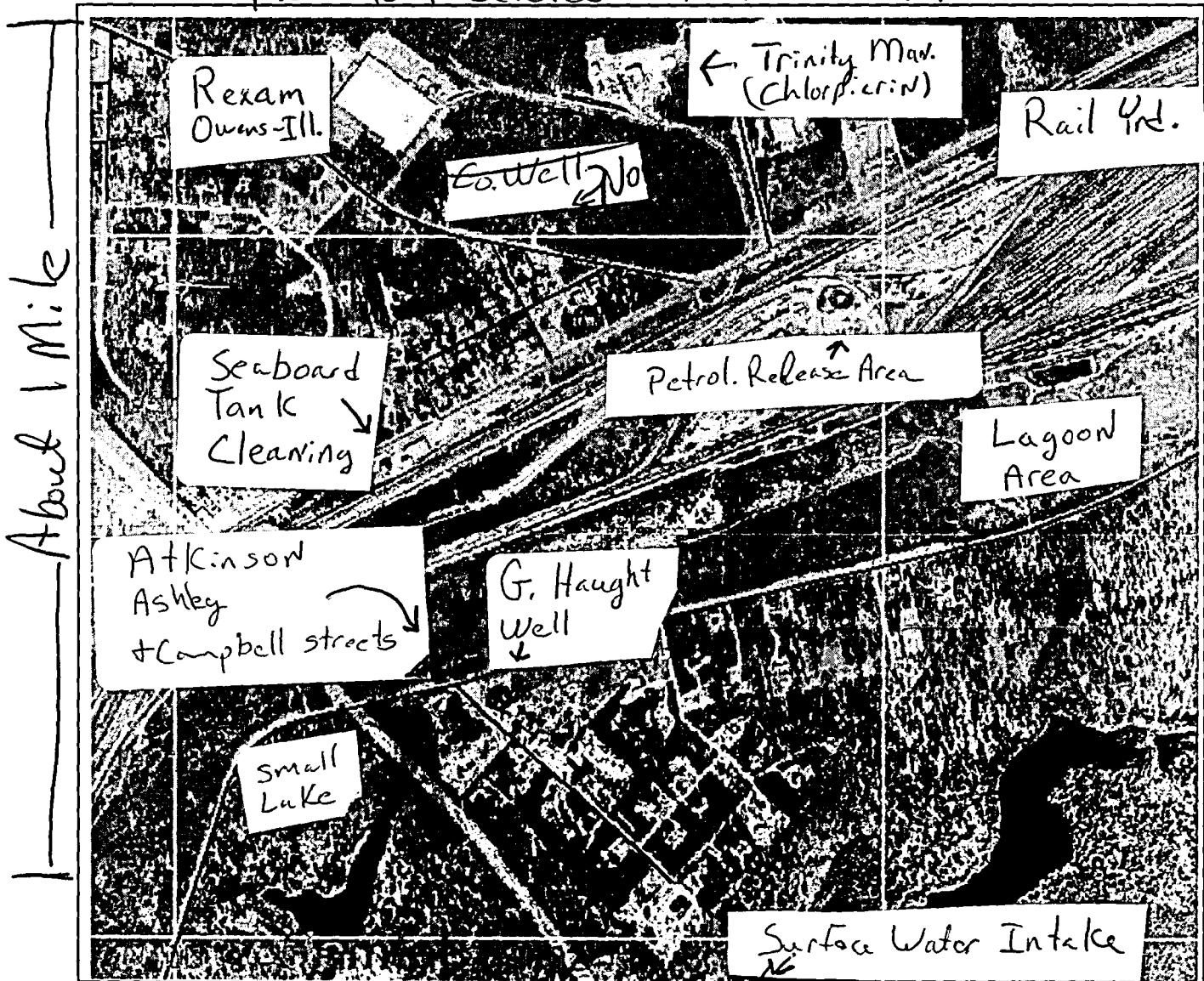


RICHMOND COUNTY

NORTH CAROLINA

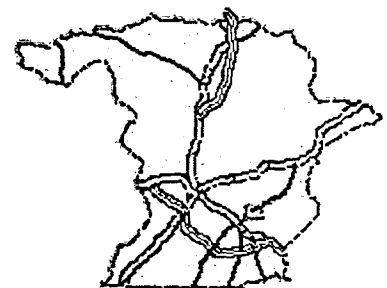
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Flow is Predicted North to South towards Lakes



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S



Last Name	First Name	Address	CITY	ZIP	Date Sample Taken	DBCP	TCP	DCP	TCE	DCE	DCA
HAUGHT	GORDON	109 Atkinson Street	Hamlet	28345	10/9/2008	0	0	0	0	23.5 and 11.0	3.6
Butler	James	112 Ashley Street	Hamlet	28345	11/19/2008	0	0	0	0	4.8	0.61
Butler	James	112 Ashley Street	Hamlet (Irrigation Well)	28345	11/19/2008	0	0	0	0	3.7	0.52
JOHNSON	JIMMIE	107 Atkinson St	Hamlet	28345	10/30/2008	0	0	0	0	0.48	0
JOHNSON	WAYNE	127 Atkinson Street	Hamlet	28345	10/30/2008	0	0	0	0	0.6	0
JOHNSON	CHAD	141 Atkinson Street	Hamlet	28345	10/30/2008	0	0	0	0	0.48	0
CHAVIS	RONALD	146 Atkinson St	Hamlet	28345	11/5/2008	0	0	0	0	0	0
KNIGHT	PERRY	113 Orton Lane	Hamlet	28345	11/5/2008	0	0	0	0	0.8	0.8
KNIGHT	PERRY	119 Orton Lane	Hamlet	28345	11/5/2008	0	0	0	0	1	1
LEE	TOMMY	164 Atkinson Street	Hamlet	28345	11/5/2008	0	0	0	0	0	0
JERNIGAN	WILLIAM	149 LancesRun	Hamlet	28345	11/5/2008	0	0	0	0	0	0
JERNIGAN	WILLIAM	115 Atkinson Street	Hamlet	28345	11/5/2008	0	0	0	0	0.8	0
JERNIGAN	WILLIAM	410 Campbell Rd	Hamlet	28345	11/5/2008	0	0	0	0	0	0
CHAVIS	RONALD	150 Atkinson St	Hamlet	28345	11/18/08	0	0	0	0	0	0
GOODWIN	WILLIAM DAVID	121 Justice Lane	Hamlet	28345	11/20/08	0	0	0	0	0	0
HORNE	JAMES	404 Campbell Road	Hamlet	28345	12/4/08	0	0	0	0	0	0

Last Name	First Name	Address	Comment1	Comment2	SWL	Screen In	Lat	Long
HAUGHT	GORDON	109 Atkinson Street	3.6 ppb 1,1 Dichloroethane, 0.8ppb Chloroform, 0.7 ppb 1,1,1 Trichloroethane	Resampled, IHSB 1,1 DCE = 11.0 ppb	22	79-89	34.90681651792 - 65	79.6762957233647
Butler	James	112 Ashley Street	1,1 DCE and 1,1 DCA					
Butler	James	112 Ashley Street	1,1 DCE and 1,1 DCA					
JOHNSON	JIMMIE	107 Atkinson St	1,1 Dichloroethane				34.906185712	-79.675147028
JOHNSON	WAYNE	127 Atkinson Street	1,1 Dichloroethane				34.906352202	-79.625256008
JOHNSON	CHAD	141 Atkinson Street	1,1 Dichloroethane				34.906682573	-79.674743211
CHAVIS	RONALD	146 Atkinson St	Ronnie's house 4" well, Chloroform 0.5		38	58-78		
KNIGHT	PERRY	113 Orton Lane			20	52-72	34.90519732067 - 28	79.6761506565121
KNIGHT	PERRY	119 Orton Lane					34.90531211073 - 02	79.6759692141631
LEE	TOMMY	164 Atkinson Street	HAS 2 WELLS, Chloroform Tracie, MTBE TRaci CALL BEFORE COMING		44	68-78	34.90436325267 - 02	79.6730035264773
JERNIGAN	WILLIAM	149 LancesRun	TRACE: CHLOROFORM				34.90441906309 - 75	-79.674668942391
JERNIGAN	WILLIAM	115 Atkinson Street	0.8ug/L, 1,1-DICHLOROETHANE 0.6 ug/L, TETRAHYROFURAN 1.9				34.90652689093 - 21	79.6759247517619
JERNIGAN	WILLIAM	410 Campbell Rd			40	82-92	34.90591556657 - 27	79.6703557739692
CHAVIS	RONALD	150 Atkinson St	Larry Snell trailer 2" well; Chloroform 1.0					
GOODWIN	WILLIAM DAVID	121 Justice Lane	contact: Allison or Jonathon Goodwin			85-95		
HORNE	JAMES	404 Campbell Road	0.7 ppb Chloroform					

16 Samples